

Sonic Nausea Machine

NAUSEA1 SCHEMATIC



Basic Description

Your NAI S1 MACHINE produces high frequency acoustical energy that causes nausea, headaches, disorientation and general uncomfortability. It can be used to discourage people from congregating or pets from going on furniture, tables etc. Determining the source of the sound is difficult for most people as they feel it rather than hear it.

Parts List

- R1 10K Trimmer pot
- R2 2.2K 1/4 W (red,red,red)
- R3 10 ohm 1/4 W (br,bld,bl)
- C1 100 mfd 25 V vertical electrolytic capacitor
- C2 .0047 mfd 50 V polyester capacitor
- C3 .01 mfd 50 V disc capacitor
- *L1,2 1 mH high Q inductors for tuning transducer
- U1 555 DIP Timer
- *TD1 Special piezoelectric transducer
- CL1 Battery snap clip
- PB1 1.4" X 1.6" .1 Grid perfboard
- B1 9 Volt transistor or 8 AA batteries for 12 volts

Assemble board as shown using the component leads for connection runs. Route wire runs as shown by dashed lines on assembly drawing and avoid bare wire bridges, cold solder joints, potential shorts and excess solder. Note proper position of U1 and polarization of C1.

Apply power via a battery or bench supply and tune R1 for a clear piercing tone. If you have a scope, tune for a 30 to 40 volt sinusoidal wave of 15 kHz across TD1. You may tune the circuit for a higher frequency around 20 kHz by shorting out one of the inductors. This is usually required if the circuit bothers people when being used to control pets. Battery drain is around 50 ma and can range from 6 to 15 volts.

BOARD ASSEMBLY OF NAUSEA MACHINE

NAUSEA003

IF YOU ARE A BEGINNER WE SUGGEST OUR HGCAT1 GENERAL CONSTRUCTION TECHNIQUES

